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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/661,986	09/14/2000	Harold Rosen	PD-200083	8909
20991 THE DIRECT	7590 09/14/200° V GROUP, INC.	7	EXAMINER	
PATENT DOCKET ADMINISTRATION			LY, NGHI H	
CA / LA1 / A109 P O BOX 956		ART UNIT	PAPER NUMBER	
EL SEGUNDO, CA 90245-0956			2617	
			MAIL DATE	DELIVERY MODE
	•		09/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		09/661,986	ROSEN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Nghi H. Ly	2617			
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period of the reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>30 January 2007</u> .					
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims		•			
4)🖂	Claim(s) <u>1,4-15,17-21,23 and 24</u> is/are pendin	g in the application.				
	4a) Of the above claim(s) is/are withdraw					
5)	Claim(s) is/are allowed.					
6)	Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
8)⊠	Claim(s) <u>1,4-15,17-21,23 and 24</u> are subject to	restriction and/or election requir	rement.			
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
	The drawing(s) filed on is/are: a) acc		Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119	·				
12)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:)-(d) or (f).			
	1. Certified copies of the priority document		iam Nin			
	2. Certified copies of the priority document3. Copies of the certified copies of the priority					
	application from the International Burea		ed in this National Stage			
* (See the attached detailed Office action for a list		ed.			
Attachmer	nt(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 01/30/07.	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

Application/Control Number: 09/661,986

Art Unit: 2617

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species I, including claims 1 and 4-8, relate to said pattern having a plurality of first resource cells and a second resource cell having a resource different than the plurality of first resource cells; selectively suppressing a side lobe of a first beam having a first resource by selectively reshaping the antenna surface at interference locations and maintaining a shape of the antenna in non-interference locations to form a suppressed portion and a non-suppressed portion so that said non-suppressed portion aligns with said second resource cell and a side lobe suppressed portion of the first beam aligns with other beams having the first resource.

Species II, including claim 9-14, relate to a plurality of <u>main lobes</u> directed to one of a first plurality of cells and a plurality of <u>side lobes</u> and a second plurality of beams having a second resource directed to one of a second plurality of cells, <u>said</u> antenna selectively shaped so that said <u>side lobes</u> of said first plurality of beams are selectively suppressed in <u>directions</u> of other beams of said first plurality of cells having said first resource and said <u>side lobes</u> are unsuppressed in the second plurality of cells.

Species III, including claims 15 and 17-20, relate generating, with an antenna, a fixed reuse pattern having a maximum capacity having a first beam having a first resource and a first plurality of beams having the first resource; generating, with the antenna, a second plurality of beams having a second resource different than the first resource; identifying interference locations of said first beam relative to said plurality of second beams; selectively reshaping an antenna to selectively suppress interference at the interference locations with the first plurality of beams and maintaining the shape of the antenna in non-interference locations, and maintaining the antenna to not suppress interference at non-interference locations.

Species IV, including claims 21, 23 and 24, relate to selectively performing side lobe suppression only for beams using a same communication resource and maintaining a shape of the antenna to not suppress interference for beams using a different communication resource.

2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, **no claims are generic**.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

Application/Control Number: 09/661,986

Art Unit: 2617

is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Art Unit: 2617

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Page 5

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (571) 272-7911. The examiner can normally be reached on 9:30am-8:00pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nghi H. Ly

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